

Message Text

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TAGS: PARM, US, UR

SUBJ: TTBT/PNE NEGOTIATIONS

TTBT/PNE MESSAGE NUMBER FOURTEEN

1. FOLLOWING IS TEXT OF AMBASSADOR STOESSEL'S STATEMENT
DELIVERED AT FEBRUARY 19 PLENARY:

BEGIN TEXT: MR. MINISTER: THE US DELEGATION HAS COMPLETED ITS PRESENTATION OF THE US PROPOSAL WITH RESPECT TO CONTAINED PNES. THIS AFTERNOON I SHALL TURN TO THE OTHER MAJOR CATEGORY, WHICH BOTH SIDES CALL EXCAVATION PNES. I BELIEVE THAT BOTH SIDES UNDERSTAND THIS TERM TO REFER TO UNDERGROUND NUCLEAR EXPLOSIONS FOR PEACEFUL PURPOSES WHICH CAUSE THE DYNAMIC RUPTURE OF THE EARTH'S SURFACE AND WHICH ARE DESIGNED TO MOVE MATERIAL AT THE EARTH'S SURFACE. I BELIEVE WE AGREE THAT NEITHER THE US NOR THE USSR HAS YET SOLVED ALL OF THE PROBLEMS ASSOCIATED WITH CARRYING OUT EXCAVATION PROJECTS THROUGH THE USE OF PNES. NEVERTHELESS, IT IS APPROPRIATE FOR OUT TWO SIDES TO CONSIDER WHAT PROVISIONS IN A PNE AGREEMENT SHOULD GOVERN PNES THAT MIGHT BE USED FOR EXCAVATION PURPOSES. SUCH PROVISIONS WOULD, OF COURSE, APPLY TO EXCAVATION PNES WHETHER CARRIED OUT IN A RESEARCH AND DEVELOPMENT PROGRAM OR IN FUTURE PRACTICAL PROJECTS.

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I WOULD LIKE TO EMPHASIZE AT THE OUTSET THAT THE

PROVISIONS WE PROPOSE ARE INTENDED TO ASSURE THAT EXCAVATION PNES DO NOT PROVIDE WEAPONS-RELATED BENEFITS OTHERWISE PRECLUDED OR LIMITED BY THE THRESHOLD TEST BAN TREATY.

I MUST ALSO EMPHASIZE, MR. MINISTER, ANOTHER IMPORTANT CONSIDERATION. IT IS CLEAR THAT ANY PNE AGREEMENT MUST BE CONSISTENT WITH THE LIMITED TEST BAN TREATY OF 1963. THIS REQUIREMENT IS IN ADDITION TO AND INDEPENDENT FROM THE RELATIONSHIP OF A PNE AGREEMENT TO THE TREATY OF JULY 1974; AND IN MY REMARKS TODAY I ADDRESS ONLY THE RELATIONSHIP TO THE THRESHOLD TEST BAN TREATY.

WE HAVE STRUCTURED OUR PROPOSAL ON EXCAVATION PNES IN TERMS OF CERTAIN LIMITATIONS, INFORMATION EXCHANGE, AND OBSERVER RIGHTS AND FUNCTIONS WHICH WE BELIEVE WILL GIVE ADEQUATE ASSURANCE THAT THE POTENTIAL FOR WEAPON DEVELOPMENT OR WEAPON EFFECTS TESTS WILL BE CONSTRAINED TO A DEGREE CONSISTENT WITH THE LIMITATIONS IN THE THRESHOLD TEST BAN TREATY.

WE PROPOSE FOUR SPECIFIC LIMITATIONS ON EXCAVATION PNES:

FIRST, THE AGGREGATE YIELD OF ANY EXCAVATION SALVO OR GROUP EXPLOSION SHOULD NOT EXCEED 500 KILOTONS.

SECOND, THERE SHOULD BE AN AGREED LIMIT ON THE MAXIMUM YIELD OF EACH INDIVIDUAL EXCAVATION EXPLOSIVE, WHETHER USED ALONE OR AS ONE EXPLOSIVE OF A SALVO OR GROUP EXPLOSION.

THIRD, THAT PORTION OF THE TOTAL YIELD OF ANY EXCAVATION EXPLOSIVE WHICH IS GENERATED BY NUCLEAR FISSION SHOULD NOT EXCEED 0.2 KILOTON.

FOURTH, EACH EXPLOSIVE IN AN EXCAVATION PNE SHOULD BE AT A DEPTH, MEASURED IN METERS, OF NOT LESS THAN 30 TIMES THE CUBE ROOT OF ITS YIELD IN KILOTONS.

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THE PURPOSE OF INFORMATION EXCHANGE AND OBSERVER FUNCTIONS ARE TO AUGMENT NATIONAL TECHNICAL MEANS OF THE OTHER PARTY TO VERIFY COMPLIANCE WITH THESE LIMITATIONS AND TO ASSURE THAT THE EXCAVATION PROJECT CAN BE RECOGNIZED AS HAVING THE STATED PEACEFUL PURPOSE. AS YOU WILL NOTE, THE INFORMATION WHICH WE PROPOSE BE EXCHANGED FOR EXCAVATION PNES IS SIMILAR TO THAT WE PROPOSED FOR CON-

TAINED PNES.

IT IS NECESSARY THAT WE EXCHANGE INFORMATION IN ADVANCE ON THE PURPOSE, DATE, TIME, DEPTH, YIELD, AND GEOGRAPHICAL COORDINATES OF ALL EXPLOSIONS. WE WILL NEED TO ESTABLISH AN ADEQUATE PERIOD OF TIME FOR ADVANCE NOTIFICATION OF THESE FACTS. THE STATEMENT OF PURPOSE MUST ENCOMPASS A PROJECT PLAN AND SCHEDULE OF ACTIVITIES RELATED TO THE EVENT. THIS WOULD INCLUDE

- A FULL AND CLEAR DESCRIPTION OF THE PLANNED EVENT
- DETAILS ON THE EMPLACEMENT OF THE EXPLOSIVES
- THE PLANNED TIMES OF THE EMPLACEMENTS
- THE PLANNED TIMES OF INDIVIDUAL AND GROUP

EXPLOSIONS

- THE DEPTHS OF BURIAL OF THE EXPLOSIVES
- THE RELATIONSHIP TO NEARBY GEOLOGICAL

FEATURES, AND OTHER RELEVANT FEATURES WHICH EITHER INFLUENCE THE OBJECTIVES OF THE EXPLOSION OR CONSTRAIN THE YIELDS, DEPTHS OR OTHER CHARACTERISTICS.

IT WILL ALSO BE NECESSARY TO EXCHANGE INFORMATION ON THE GEOLOGY AND THE GEOPHYSICAL PROPERTIES OF THE MEDIUM AT AND NEAR THE BURST POINTS. THIS MUST INCLUDE A DESCRIPTION OF THE GEOLOGICAL SECTION AND A STATEMENT OF THE BASIC PHYSICAL PROPERTIES OF THE LITHOLOGICALLY DISTINCT ROCK UNITS PRESENT, INCLUDING DENSITY, ROCK STRENGTH, SEISMIC VELOCITY, POROSITY, DEGREE OF WATER SATURATION AND THE DEPTH TO THE WATER TABLE.

AFTER THE EXPLOSION, THE PARTY CARRYING OUT THE PNE EXCAVATION SHOULD PROVIDE DATA ON THE ACTUAL YIELDS AND ON THE RESULTS OBTAINED WHICH WOULD INCLUDE CRATER DIMENSIONS AND RADIATION FIELD MEASUREMENTS IN THE
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VICINITY OF THE AREA OF THE EXCAVATION.

AS WEAS THE CASE WITH CONTAINED PNES, WE BELIVE THAT THE PRESENCE OF OBSERVERS IS NECESSARY TO VERIFY THE INFORMATION THAT HAS BEEN EXCHANGED. HOWEVER, IN THE CASE OF EXCAVATION PNES THERE WILL BE ADDITIONAL OBSERVER RIGHTS AND FUNCTIONS, WHICH WE BELIEVE ARE NECESSARY.

THE PURPOSES OF ON-SITE OBSERVATION FOR EXCAVATION PNES ARE: (1) TO VERIFY THE DEPTH OF BURIAL OF EACH EXPLOSIVE, THE RELATIVE EMPLACEMENT POSITION OF EACH EXPLOSIVE IN THE GROUP, AND THE NEAR-SIMULTANEITY OR RELATIVE TIMES OF THE EXPLOSIONS, (2) TO VERIFY THE GEOLOGICAL AND GEOPHYSICAL CHARACTERISTICS OF THE ROCK

SURROUNDING THE POINT OF EXPLOSIVE EMPLACEMENTS,
(3) TO CONFIRM THAT THE FISSION YIELD OF EACH EXPLOSIVE
WAS CONSISTENT WITH THE SPECIFIED UPPER LIMIT, (4) TO
MAKE SPOT CHECKS OF THE RADIATION FIELD, (5) TO EMPLACE
AND OPERATE A NETWORK OF PORTABLE INSTRUMENTNT PACKAGES,
WHICH WOULD INCLUDE SEISMOMETERS, BROUGHT BY THE OBSERVER
TEAMS, WITHIN A SISTANCE OF 10 KILOMETERS FROM THE
EXCAVATION, AND (6) TO VERIFY THAT CIRCUMSTANCES AT THE
SITE ARE CONSISTENT WITH THE STATED PURPOSE OF THE
EVENT.

I HAVE BRIEFLY OUTLINED IN THIS STATEMENT BASIC
ELEMENTS OF VERIFICATION AS THEY APPLY TO THE USE OF
PNES FOR EXCAVATION. I WOULD NOTE THAT ANY AGREEMENT
WE MIGHT REACH HERE WOULD BE IN THE CONTEXT OF THE
THRESHOLD VALUE STATED IN THE TREATY OF JULY 3, 1974.
IF FUTURE REVISIONS OF THE THRESHOLD OR OTHER FORMS
OF LIMITATION ON NUCLEAR WEAPON TESTS WERE TO BE
NEGOTIATED, THEN THE PNE PROVISION MIGHT ALSO HAVE
TO BE REVISED.

IN OUR NEXT PLENARY STATEMENT I WILL ILLUSTRATE
THE ACTIVITIES OF OBSERVERS. END TEXT.
STOESSEL

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